

List of Acronyms

AC	Alternating current
ACE	Area control error
ACSR	Aluminum conductors steel reinforced
AEP	American Electric Power
AGC	Automatic generation control
ASD	Adjustable speed drive
ATC	Available transfer capability
BPA	Bonneville Power Administration
CAISO	California Independent System Operator
CDEC	Centro de Despacho Económico de Carga
COE	Corps of Engineers
CPS	Control performance standard
CREPC	Committee on Regional Electric Power Cooperation
CSC	Commercially significant constraint
CSC	Convertible static compensator
DC	Direct current
DCS	Disturbance control standard
DG	Distributed generation
DOE	U.S. Department of Energy
DSA	Dynamic security assessment
ECA	Electric Consumers Alliance
EEI	Edison Electric Institute
EIA	U.S. Energy Information Administration
EMF	Electromagnetic field
EMS	Energy management system
ERCOT	Electric Reliability Council of Texas
ERO	Electric reliability organization
FACTS	Flexible AC transmission system
FCTTC	First contingency total transfer capability
FERC	Federal Energy Regulatory Commission
FGR	Flowgate right
FTR	Financial transmission right
GIL	Gas-insulated transmission lines
GPS	Global positioning system
GTO	Gate turn-off

HTSC	High-temperature super-conducting
HVDC	High-voltage direct current
IES	Intelligent energy system
IPO	Initial public offering
IPP	Independent power producer
ISO	Independent system operator
ISO-NE	ISO New England
ITC	Independent transmission company
kV	Kilovolt
LADWP	Los Angeles Department of Water and Power
LMP	Locational marginal price
MAPP	Mid-Continent Area Power Pool
MISO	Midwest Independent System Operator
MRD	Market redispatch
MWh	Megawatt hour
NAERO	North American Electric Reliability Organization
NARUC	National Association of Regulatory Utility Commissioners
NEPA	National Environmental Policy Act
NEPOOL	New England Power Pool
NERC	North American Electric Reliability Council
NETA	New Electricity Trading Agreement
NGA	National Governors Association
NGC	National Grid Company
NPC	National Petroleum Council
NTG	National transmission grid
NTGS	National Transmission Grid Study
NYPA	New York Power Authority
O&M	Operation and maintenance
OASIS	Open Access Same-Time Information System
OPF	Optimal power flow
OTC	Operating transfer capability
PBR	Performance-based regulation
PCCIP	Presidential Commission on Critical Infrastructure Protection
PCR	Price-cap regulation
PDC	Phasor data concentrators
PG&E	Pacific Gas and Electric
PJM	Pennsylvania-New Jersey-Maryland Interconnection
PMA	Power marketing administration
PMU	Phasor measurement unit

PPL	Polypropylene paper laminate
PPSM	Portable power system monitor
PSAM	Power system analysis monitor
PSC	Public service commission
PTDF	Power transfer distribution factor
PUC	Public utilities commission
R&D	Research and development
RMS	Reliability Management System
ROR	Rate of return
RTO	Regional transmission organization
SCADA	Supervisory control and data acquisition
SMES	Superconducting magnetic energy storage
SVC	Static-var compensator
TANC	Transmission Agency of Northern California
TCSC	Thyristor-controlled series capacitor
TLR	Transmission loading relief
TO	Transmission owner
TSO	Transmission system operator
TSP	Transmission service provider
TVA	Tennessee Valley Authority
UPFC	Unified power-flow controller
WAMS	Wide-area measurement system
WAPA	Western Area Power Administration
WGA	Western Governors' Association
WSCC	Western Systems Coordinating Council
XLPE	Extruded dielectric polyethylene

